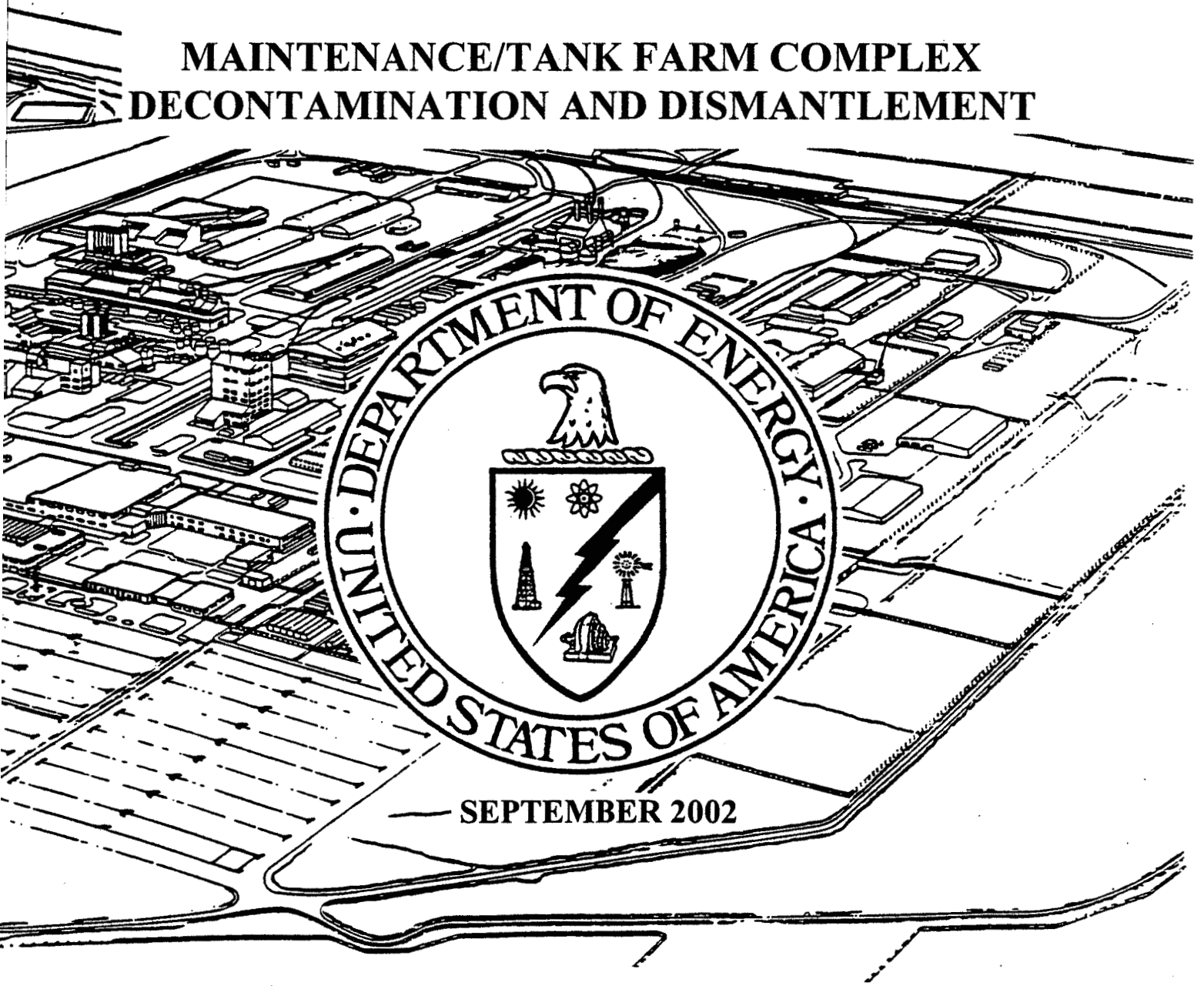
OPERABLE UNIT 3

4479

FINAL PROJECT COMPLETION REPORT

MAINTENANCE/TANK FARM COMPLEX DECONTAMINATION AND DISMANTLEMENT



SEPTEMBER 2002

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

DOCUMENT CONTROL NO. 1747-RP-0002 (REV.0)

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FINAL PROJECT COMPLETION REPORT
MAINTENANCE/TANK FARM COMPLEX D&D

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

ATTACHMENTS

4479

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1.0 PROJECT SUMMARY

The decontamination and dismantlement (D&D) of the remaining components from the above-grade Maintenance/Tank Farm (M/TF) Complex D&D project was performed successfully and in accordance with the project planning/design requirements specified in the M/TF Complex Implementation Plan (DOE, 1998). As required by the Implementation Plan and the M/TF Interim Project Completion Report (DOE, 2000), this document serves as the M/TF Final Project Completion Report. Following completion of the last Operable Unit 3 (OU3) D&D Project, this report will be compiled with reports from all OU3 D&D projects to prepare the Final Remedial Action Report for OU3.

The D&D execution of the remaining components from the M/TF Complex D&D project began on April 29, 2002 with the mobilization of the D&D Contractor. Project completion was achieved on September 10, 2002 and is defined by the signed Final Acceptance/Turnover document that transfers the area to Fluor Fernald Facilities Management. This document signifies "Completion of Field Activities" per Section 4.2.4 of the OU3 Integrated RD/RA Work Plan.

The scope of the M/TF Complex D&D project included the following major activities:

- asbestos abatement/removal;
- surface decontamination;
- above-grade component dismantlement; and
- material management.

Section 2 presents a component-specific remediation summary. Material Management is discussed in Section 3. Environmental monitoring results conducted in support of the project are presented in Section 4. Lessons-learned have also been compiled and are presented in Section 5.

The following remaining components were included in the scope for completion of the M/TF Complex D&D project:

- Building 64 - Thorium Warehouse
- Building 65 - Old Plant 5 Warehouse

1.1 Description of Components

Buildings 64 and 65 were located in the northeastern block of the former production area, north of 2nd Street, south of the Haul Road, east of "B" Street and west of "E" Street. The location of Buildings 64 and 65 is shown in Figure 1-1.

1.2 Project Chronology

Table 1-1 lists the chronology of above-grade D&D activities for Buildings 64 and 65:

TABLE 1-1 D&D Chronology

ACTIVITY	START	FINISH
Notice To Proceed	3/4/02	6/27/02
Mobilization/Demobilization	4/23/02	6/27/02
Dismantlement:		
• Building 64 – Thorium Warehouse	4/29/02	6/12/02
• Building 65 – Old Plant 5 Warehouse	4/29/02	6/11/02
Debris Size Reduction and Containerization:		
• Building 64 – Thorium Warehouse		9/09/02
• Building 65 – Old Plant 5 Warehouse		6/27/02
Completion of Field Activities (CFA)		9/10/02

7

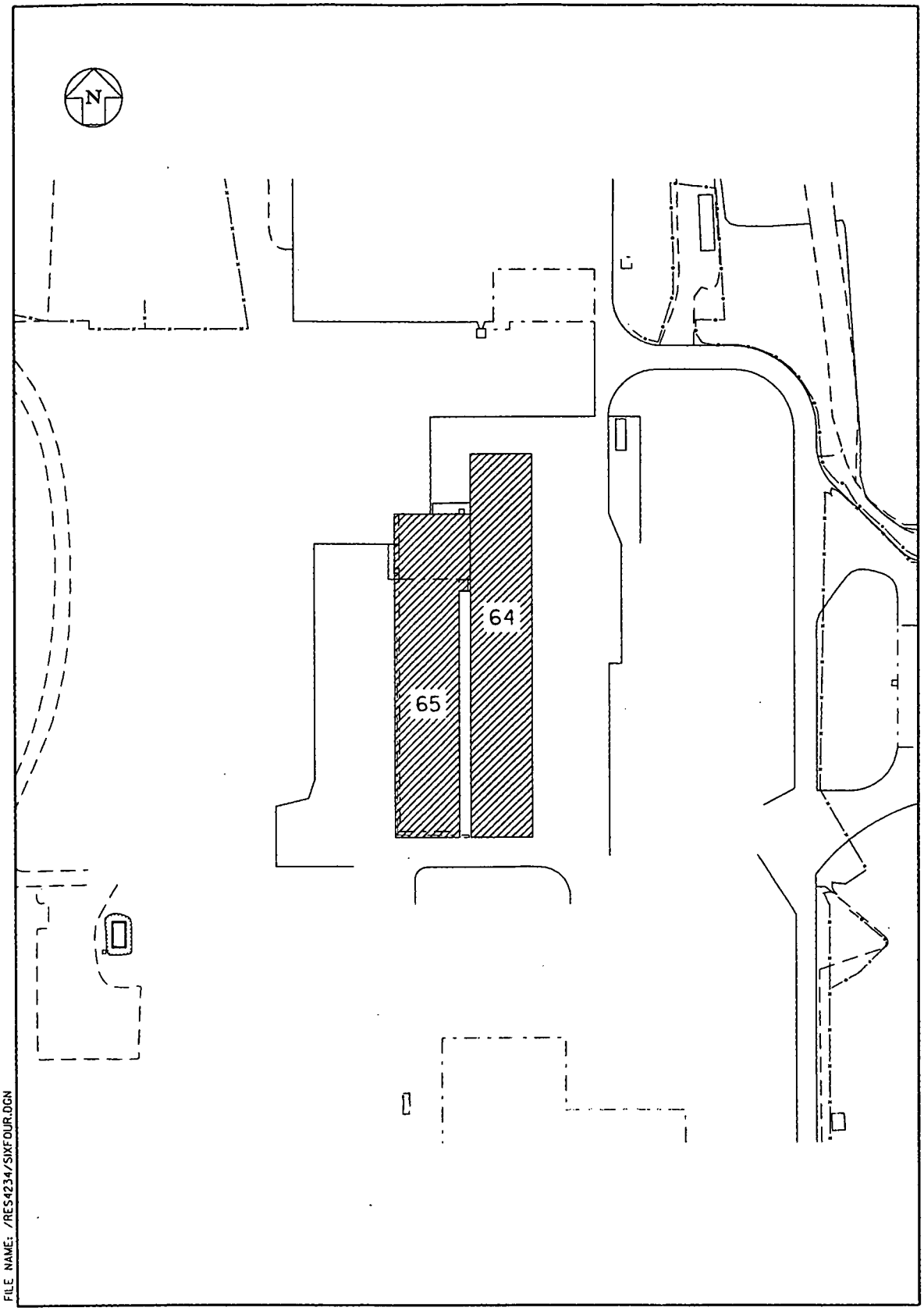

Figure 1-1 Buildings 64 and 65

8

2.0 REMEDIATION APPROACH

2.1 Preparatory Actions

Facilities Shutdown activities were performed by FEMP personnel and were completed in Buildings 64 and 65 on April 16, 2002. Facilities Shutdown activities consisted of:

- *removal of chemicals; and*
- disconnection of all utilities

2.2 Component-Specific Remediation Summary

2.2.1 Building 64 – Thorium Warehouse

Background
Building 64, (Thorium Warehouse), was a single-story, pre-engineered building which measured approximately 320 feet x 50 feet x 18 feet. It consisted of a structural steel frame, metal siding and roofing, with interior block walls, interior transite walls from a southeast corner office and a concrete shield wall, on a reinforced concrete base floor.

Building 64 was originally used to store pallets and drums full of 2.1% enriched uranium in the form of ingots, billets and top crops. More recently, it was converted to support thorium overpacking operations.

Remedial Tasks
Lockdown was applied to all of the building interior and exterior. Interior transite walls were encapsulated and removed. Windows were removed and the 64 structure was dismantled using a hydraulic shear. Materials generated during the dismantlement of Building 64 included piping & conduit, structural & miscellaneous steel, CMU block, roofing material, doors & windows, interior transite paneling and batting insulation,

Photos
Photos 1 through 4 of Attachment 2 show the following activities for the D&D of Building 64:

1 – Shearing activity.
2 – Shearing activity.
3 – Dismantled structure.
4 – Debris size reduction.

2.2.2 Building 65 – Old Plant 5 Warehouse

Background
Building 65, (Old Plant 5 Warehouse), was a single-story, rectangular building measuring approximately 50 feet x 210 feet x 22 feet. It consisted of a structural steel frame with non-insulated, corrugated metal siding and roofing on a reinforced poured concrete base and floor.

The building was considered to be one process area and was used to store drummed thorium compounds.

Remedial Tasks
Building 65 was decontaminated in order that the facility could be released from thorium surface contamination controls during its' demolition and subsequent sizing/loadout of debris. A HEPA vacuum was used to decontaminate the building interior. Lockdown was applied to all of the building interior and exterior. The Building 65 windows had been previously foamed and sealed to prevent the glass from breaking. Waste Acceptance Operations determined that the windows could be co-mingled with the remaining debris based on the sealed condition of the windows and minimal glass quantity. The 65 structure was dismantled using a hydraulic shear. Materials generated during the dismantlement of Building 65 included piping & conduit, structural & miscellaneous steel, doors & windows, roofing material and wood products.

Photos
Photos 5 through 8 of Attachment 2 show the following activities for the D&D of Building 65:

5 - Shearing activity.
6 - Shearing activity.
7 - Partially dismantled structure.
8 - Dismantled structure.

3.0 MATERIAL MANAGEMENT

Generated Debris
Debris generated from the D&D of Buildings 64 and 65 was size reduced, segregated, and containerized in accordance with the requirements identified by the Material Segregation and Containerization Criteria (MSCC).

Containerized materials that either have, or will be, disposed of in the FEMP On Site Disposal Facility (OSDF) are presented in Table 3-1. This information is identified in the Integrated Information Management System (IIMS) report, shown as Attachment 1. IIMS reports represent activities associated with materials generated by the project that either have been or are destined for disposition in the OSDF.

TABLE 3-1 Waste Containers For Placement In The OSDF:

Container Type	Debris Category	Profile	OSDF Code	Volume (cu. yds.)	Number of Containers
ROB	A, B, D & E	92101	2	470	16
ROB	D	922852	2	60	2
ROB	E	922007	2	130	13
ROB	I-2	92023	2	25	2
ROB	Thorium Contaminated	92028	2	900	37
ROB	Thorium Contaminated I-4	94006	4	50	2
ROB Total				**1635**	**72**
Stockpile	G	931961	3	3	*
Stockpile Total				**3**	*

* Transite is encapsulated, banded, placed on pallets and stockpiled.

4.0 ENVIRONMENTAL MONITORING

No project-specific or supplemental environmental monitoring was required for Buildings 64 and 65. Results of the air monitoring data recorded at the FEMP boundary from March through June 2002 are presented in Section 4.1.

4.1 Radiological Air Monitoring

Air Monitoring Data Recorded at FEMP Boundary
The IEMP environmental radiological air emissions data from the monitoring period of March 2002 through June 2002 (3/4/02 – 6/27/02) indicated total uranium and isotopic thorium (Th-228, Th-230 and Th-232) concentrations that were within historical ranges of concentrations measured at the FEMP boundary.

Typical spring emissions patterns include sporadic, short-term increases in fence line airborne concentrations due in part to turbulent weather and increased work activities. The total uranium concentrations averaged less than one half of one percent of the DOE maximum off-site guideline of 0.1 pCi/m^3. Historical fence line data collected during similar D&D projects (Plants 1, 4, 7, and 9) indicate uranium concentrations averaged less than one half of one percent of the DOE maximum off-site guideline of 0.1 pCi/m^3. The maximum uranium concentration (at AMS-8A) was 0.00063 pCi/m^3, which represents less than one percent of the DOE standard. The relationship between 0.1 pCi/m^3 and mrem/year may be understood by the conversion factors used to equate the two terms; if inhaled continuously (24 hours/day, 365 days/year), 0.1 pCi/m^3 of total uranium in air will result in a dose of 100 mrem/year. It should be noted that various assumptions have been incorporated in this conversion factor. The uranium data from AMS-8A suggest that emissions from the Building 64/65 D&D project have not significantly affected compliance with DOE guidelines. Furthermore, the uranium emissions from the Building 64/65 D&D

//

project have not significantly affected compliance with NESHAP Subpart H limit of 10 mrem per year.

Isotopic thorium concentrations also average less than one half of one percent of the DOE maximum off-site guideline of the 0.04 pCi/m^3, 0.04 pCi/m^3 and 0.007 pCi/m^3 (Th-228, Th-230 and Th-232 respectively). The maximum Th-230 concentration (at AMS-9C) was 0.00032 pCi/m^3 , which represents 0.79 percent of the DOE standard. The thorium data also suggest that emissions from the 64/65 D&D project have not significantly affected compliance with DOE guidelines. Furthermore, the thorium emissions from the Building 64/65 D&D project have not significantly affected compliance with NESHAP Subpart H limit of 10 mrem per year.

The locations of boundary (IEMP) fence line monitors are shown in Figure 4-1. The closest downwind monitors AMS-3, AMS-8A, and AMS-9C (which historically show the maximum downwind values for the site) indicated average total uranium concentrations during the D&D Project of 0.00015, 0.00022, and 0.00022 pCi/m^3 respectively. These concentrations represent less than one third of one percent of the 0.1pCi/m^3 guideline and are within historical ranges of similar D&D projects. Similarly, TH-230 concentrations averaged 0.00011, 0.00009 and 0.00011 pCi/m^3, respectively for the same monitoring locations.

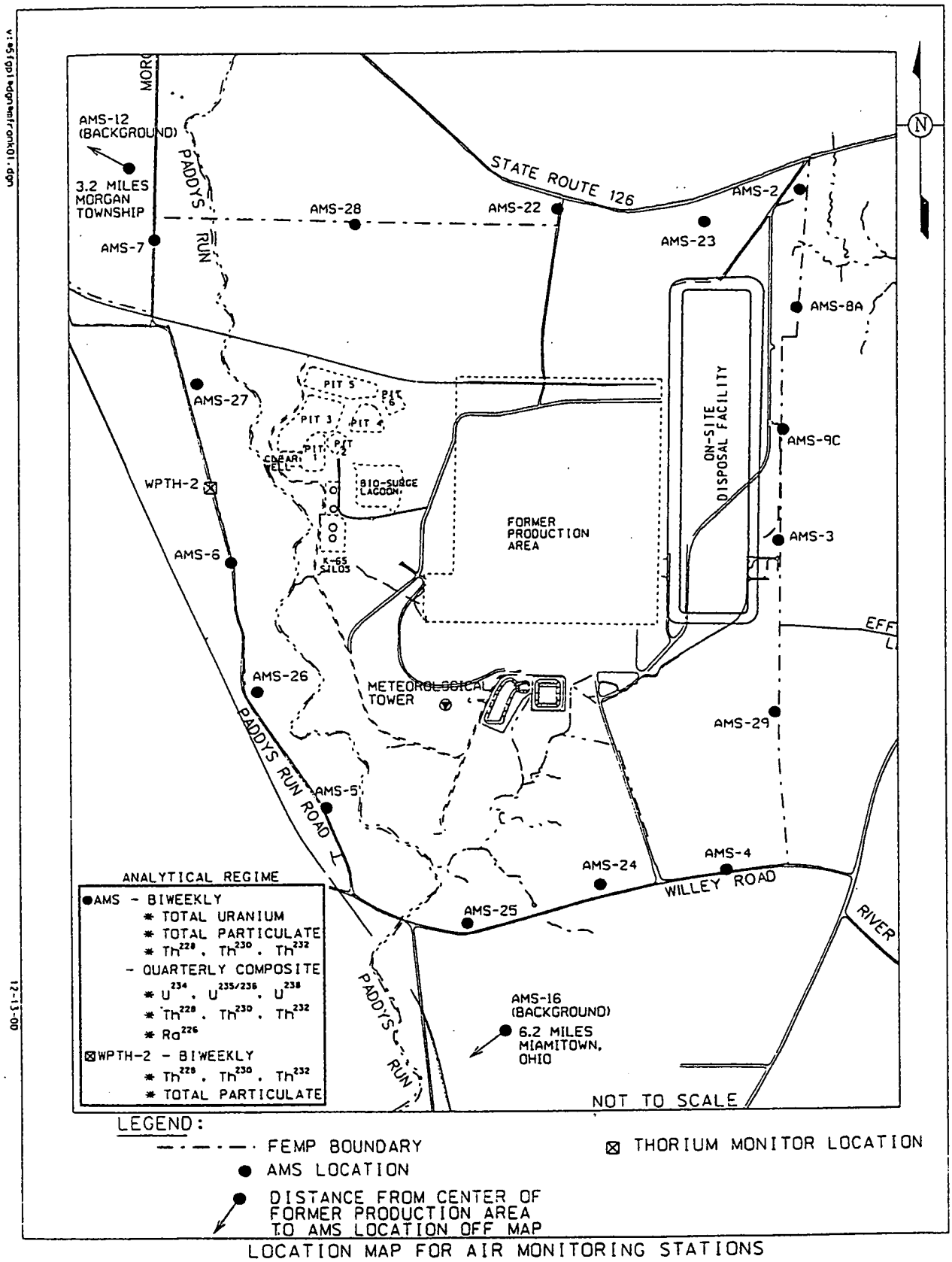

Figure 4-1 FEMP Sitewide Air Monitoring Locations

5.0 LESSONS LEARNED

5.1 Changing Field Conditions Created a New Physical Hazard

Evaluate changing field conditions to determine if changes create new hazards, any new hazards need to be mitigated immediately.

During demolition activities at the Building 64 and 65 area, a steel beam that had been removed created a hole in the ground that was not immediately backfilled. The hole measured approximately two feet in diameter by five feet deep. During demobilization activities, a worker stepped in the hole while removing construction boundary barriers. As a result, the worker sustained a back injury that resulted in a first aid case.

Changing field conditions must be readily examined for potential hazards. Safety walkthroughs should include observation of field conditions so that any new potential hazards are identified and mitigated.

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ATTACHMENT 1

IIMS INFORMATION
(INTEGRATED INFORMATION MANAGEMENT SYSTEM)

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INTRGRATED INFORMATION MANAGEMENT SYSTEM (IIMS)

4479

The following report represents activities associated with materials generated by the M/TF Project that have been destined for disposition in the OSDF. The report contains both containerization and stockpiling activities and serves as the reporting system that is tied into the Site-Wide Information Forecasting and Tracking System (SWIFTS). Below is a key to interpret the column headings.

Column 1 – FORM NO
Same as the Field Tracking Log Number.

Column 2 – PROJECT DESCRIPTION
A project number that has been assigned for waste purposes.

Column 3 – PROFILE
OSDF Material Profile Number.

Column 4 – DESCRIPTION
Description of material in terms of Category and OSDF CODE.

Column 5 – MTL TO
Indicates destination of the material.

Column 6 – TYP
F = Facility

Column 7 – VOLUME
Cubic Yards of Material

Column 8 – DATE
Date of Transaction

4479

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Location From: TWC-001

MTL Source Summary Report

Form No	Proj	Description	Profile	Description	Mtl to	Typ	Volume	Date
20720	622	BUILDINGS 64/65 D&D	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED..	W155002	F	10	07/01/2002
20792	622	BUILDINGS 64/65 D&D	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED..	W135939	F	15	06/27/2002
196995	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/11/2002
196996	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/11/2002
197000	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/11/2002
197002	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	30	07/11/2002
197007	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/02/2002
197011	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	10	07/02/2002
197016	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	15	07/02/2002
197065	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	06/21/2002
197064	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	30	06/21/2002
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197061	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	30	06/21/2002
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197056	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	06/21/2002
197055	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	06/21/2002
197082	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	30	06/27/2002
197081	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/11/2002
197080	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/02/2002
197079	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	10	07/11/2002
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4479

20

Location From: TWC-001

MTL Source Summary Report

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196998	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/11/2002
196997	622	BUILDINGS 64/65 D&D	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	OSDF	F	25	07/11/2002
17323	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W135448	F	30	05/17/2002
17324	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W136520	F	30	05/17/2002
18759	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSD-035	F	25	06/18/2002
19914	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W171124	F	30	05/20/2002
20202	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W136811	F	25	06/18/2002
20204	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W171127	F	30	06/19/2002
20203	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W135082	F	30	06/19/2002
20201	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W171124	F	30	06/18/2002
19913	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W134968	F	30	05/17/2002
20500	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W171124	F	30	05/16/2002
20494	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W171124	F	30	05/17/2002
20491	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W151405	F	30	05/16/2002
20490	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W135974	F	30	05/16/2002
20489	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W151270	F	30	05/16/2002
20488	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W171049	F	30	05/16/2002
20487	622	BUILDINGS 64/65 D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	W134968	F	30	05/16/2002
197005	622	BUILDINGS 64/65 D&D	94006	MATERIAL PRONE TO ORGANIC DECOMPOSITION, "GREEN" WASTES MEETING OSDF CAT 4 REQUIREMENTS - THORIUM CONTAMINATED	OSDF	F	20	07/02/2002
197083	622	BUILDINGS 64/65 D&D	94006	MATERIAL PRONE TO ORGANIC DECOMPOSITION, "GREEN" WASTES MEETING OSDF CAT 4 REQUIREMENTS - THORIUM CONTAMINATED	OSDF	F	30	07/02/2002
20205	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W135277	F	10	06/19/2002
20207	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W170985	F	10	06/19/2002
20208	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W171122	F	10	06/19/2002
20210	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W136552	F	10	06/19/2002
20212	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W134915	F	10	06/20/2002
20214	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W151542	F	10	06/24/2002
20216	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W171049	F	10	06/24/2002
20217	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W173133	F	10	06/24/2002
20215	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W135106	F	10	06/24/2002
20213	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W155000	F	10	06/24/2002
20211	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W134975	F	10	06/19/2002
20209	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W151547	F	10	06/19/2002
20206	622	BUILDINGS 64/65 D&D	922007	CATEGORY "E" CONCRETE, ASPHALT, OSDF CODE 2	W153856	F	10	06/19/2002
20730	622	BUILDINGS 64/65 D&D	922852	CATEGORY "D" PAINTED LIGHT GAUGE METALS, OSDF CODE 2	W171124	F	30	06/13/2002
20731	622	BUILDINGS 64/65 D&D	922852	CATEGORY "D" PAINTED LIGHT GAUGE METALS, OSDF CODE 2	W171122	F	30	06/13/2002
18454	622	BUILDINGS 64/65 D&D	931961	CATEGORY "G" NON-REGULATED ACM, OSDF CODE 3	OSD-038	F	3	06/10/2002

4479

12

ATTACHMENT 2

PHOTOS

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Photo No.	Roll-Negative No.	Description
1	7735-D43	Building 64 shearing activity.
2	7735-D46	Building 64 shearing activity.
3	7735-D49	Building 64 dismantled structure.
4	7735-D57	Building 64 debris size reduction.
5	7735-D59	Building 65 shearing activity.
6	7735-D65	Building 65 shearing activity.
7	7735-D66	Building 65 partially dismantled structure.
8	7735-D67	Building 65 dismantled structure.

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Photo 1: Building 64 shearing activity.

Photo #7735-D43

Photo 2: Building 64 shearing activity.

Photo #7735-D46

Photo 3: Building 64 dismantled structure.

Photo #7735-D49

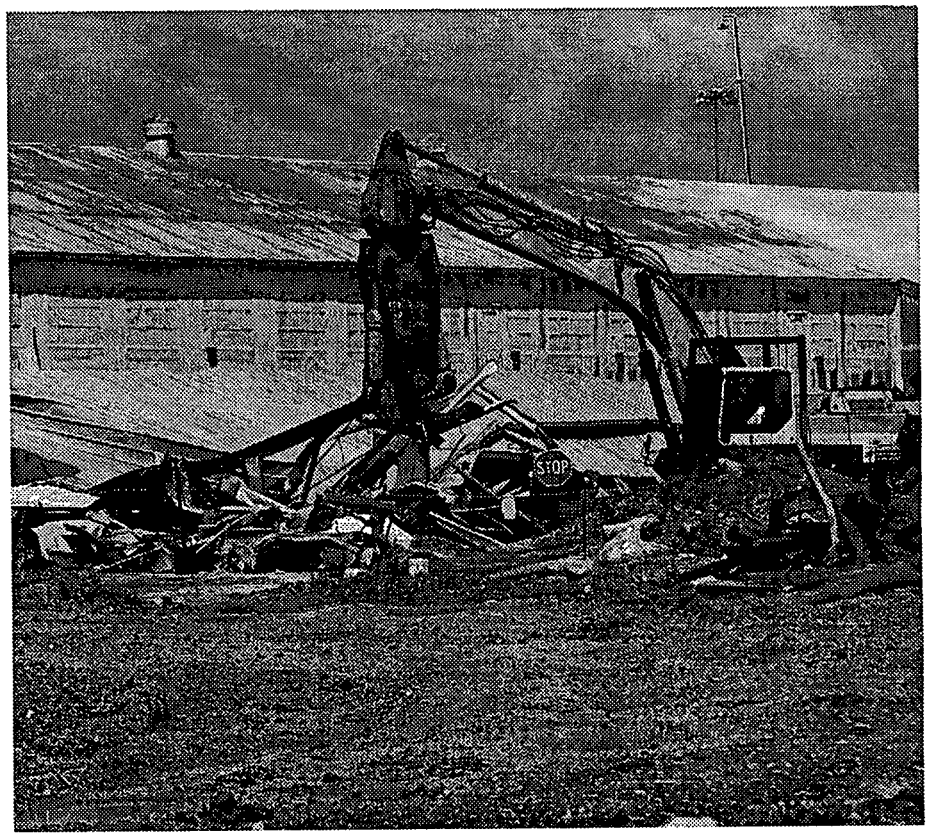

Photo 4: Building 64 debris size reduction.

Photo #7735-D57

Photo 5: Building 65 shearing activity.

Photo #7735-D59

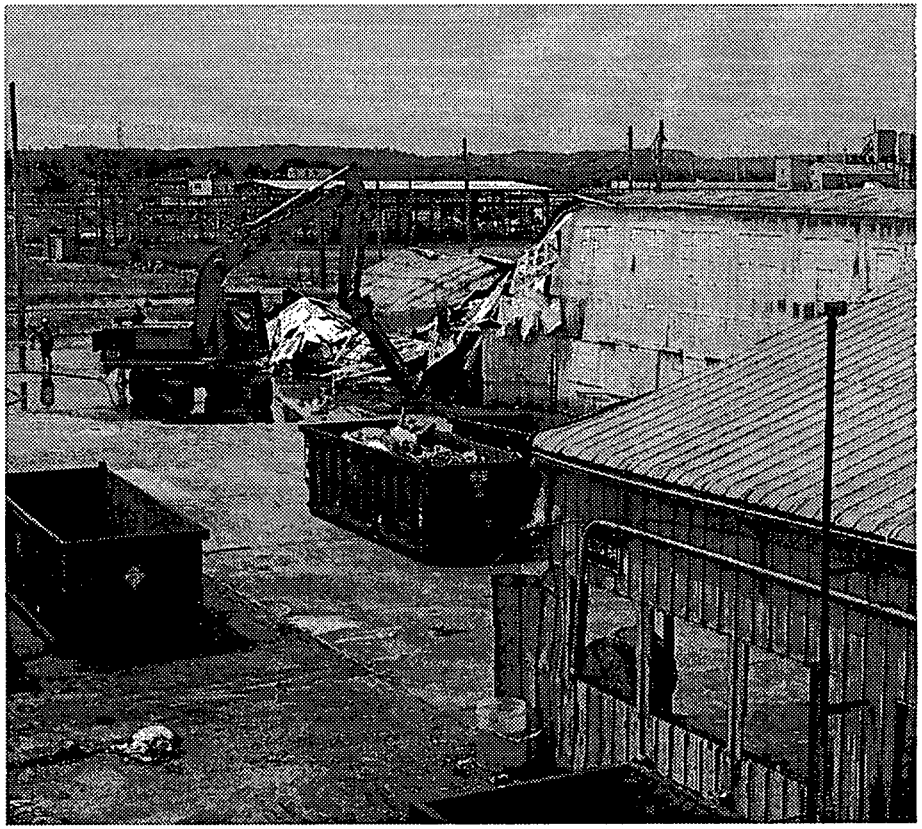

Photo 6: Building 65 shearing activity.

Photo #7735-D65

Photo 7: Building 65 partially dismantled structure.

Photo #7735-D66

Photo 8: Building 65 dismantled structure.

Photo #7735-D67